

about the Gulf of St. Lawrence or in Newfoundland, where *L. subulata* abounds in brackish habitats or in the salt marshes. Certain specimens from the Andes of Bolivia strongly simulate *L. subulata*, but they are very immature and until further material is available, it is impossible to say anything of their exact identity. It would be highly improbable, however, though not without precedent, that *L. subulata*, which in North America seems so definitely confined to the temperate Atlantic shores, should also occur in the Andes.

The nomenclatorial history of *Limosella subulata* may be summarized as follows:

LIMOSELLA SUBULATA Ives, Trans. Phys.-Med. Soc. N. Y. i. 441 (1817), Am. Journ. Sci. i. 74 (1819). *L. tenuifolia* Nutt. Journ. Acad. Nat. Sci. Phil. i. 115 (1817), not Wolf. *Ygramela maritima* Raf. Atl. Journ. i. 199 (1833). *L. maritima* Raf. l. c. (1833). *L. aquatica*, var. *tenuifolia* Torr. Fl. N. Y. ii. 40 (1843), not Schübler & Martens, Fl. von Würtemb. 396 (1834).

GRAY HERBARIUM.

REPORTS ON THE FLORA OF THE BOSTON DISTRICT,—XXVIII.

THIS list includes a large number of waifs, mostly wool-waste plants from the West and from southern Europe. Few if any of them have really persisted and spread, but it has seemed well to include them, as they are all represented by identifiable specimens, and as many of them have already been published in Dame & Collins's Middlesex Flora. The specimens have been carefully compared with authentic material in the Gray Herbarium.

Our knowledge of these interesting plants is due chiefly to those earnest collectors, Dr. Charles W. Swan, Charles E. Perkins, Rev. W. P. Alcott, Miss Emily F. Fletcher and Mrs. C. N. S. Horner. Mr. Alcott's collections are poorly represented in the Club Herbarium, so, if any reader knows where the main Alcott herbarium is kept, he will do a service by notifying the committee.

LEGUMINOSAE.

AMORPHA.

A. FRUTICOSA L. Escaped from cultivation at Lynn, Arlington, Boston, Halifax, Sharon, probably elsewhere.

AMPHICARPA.

A. monoica (L.) Ell. Open woods throughout.

A. Pitcheri T. & G. Damp woods, Oak Island, Revere (*W. P. Rich*, Aug. 25, 1893; *C. H. Knowlton*, Aug. 10, 1906); thicket, border of Mystic Lake, Winchester (*W. P. Rich*, Aug. 21, 1887); rich woods, slopes of Horn Pond Hill, Woburn (*M. L. Fernald & Bayard Long*, Oct. 5, 1913).

APIOS.

A. tuberosa Moench. Moist thickets, common throughout.

[*Arachis hypogaea* L. (peanut) comes up occasionally in waste places. Reported from Cambridge and South Boston.]

ASTRAGALUS.

A. CONTORTUPLICATUS L. Wool-waste, J. V. Fletcher farm, Westford (*Miss E. F. Fletcher*, June —, 1911). Native of southern and western Europe and the East. See RHODORA xiv. 56, 1912.

A. GLYCYPHYLLOS L. Vacant lot, escaped from Fenway, Boston (*W. P. Rich*, Aug. 2, 1906 et seq.) Native of Europe and the East.

BAPTISIA.

B. tinctoria (L.) R. Br. Dry sandy and rocky soil, common throughout.

CASSIA.

C. Chamaecrista L. Dry sand, occasional from Everett, Medford, Arlington and Littleton southward; not reported from Essex country.

C. marilandica L. Moist soil at fifteen scattered stations; at some places probably introduced.

C. nictitans L. Sandy soil, well distributed throughout.

CICER.

C. ARIETINUM L. Dump, Dorchester (*J. R. Churchill*, July 10, 1904). Specimens in herb. J. R. Churchill and N. E. Botanical Club. Native of southern Europe.

CLADRASTIS.

C. LUTEA (Michx. f.) Koch. Scattered trees growing spontaneously, Brookline (*F. F. Forbes*, June 9 and Sept. 25, 1902).

COLUTEA.

C. ARBORESCENS L. Introduced at S. P. Fowler place, Danvers (*Mrs. C. N. S. Horner*, no date); railway embankment, Wakefield (*R. C. Bean*, Sept. 23, 1916); roadside, Cambridge (*A. S. Pease*, Aug. 8, 1908).

CORONILLA.

C. SCORPIOIDES (L.) Koch. Charlestown (*C. E. Perkins*, July 23, 1881). Specimen in herb. N. E. Botanical Club. Native of Mediterranean region and Persia.

C. VARIA L. Escaped at Concord, Boston (Back Bay) and Hyde Park. [Dr. C. W. Swan's plant from Westford, reported in *Dame & Collins*, Fl. Middlesex Co. 29, 1888 is too poor a specimen to be verified.]

CROTALARIA.

C. sagittalis L. Sandy soil, at twelve scattered stations. Collected from Winchester in 1853, from Cambridge in 1824 and from Needham in 1834.

CYTISUS.

C. SCOPARIUS Link. Brookline (*E. & C. E. Faxon*, Aug. 28, 1887).

DESMODIUM.

D. bracteosum (Michx.) DC. Dry open woods, rare; Wenham, Lowell, Woburn, Melrose, Malden, W. Roxbury, Canton, Natick, Needham.

D. canadense (L.) DC. Dry soil, common.

D. canescens (L.) DC. Dry open woods, rare; Ipswich, Natick, Winchester, W. Cambridge, Revere, Waltham; roadside, Arlington, August, 1853 and 1869 (*Wm. Boott*), according to Dame & Collins, Fl. Middlesex Co. 27, 1888.

D. Dillenii Darl. Dry open woods; numerous stations in Middlesex and Norfolk counties. Not reported from Suffolk and Plymouth counties, and only collected from Georgetown and Wenham in Essex County.

D. grandiflorum (Walt.) DC. Rich woods, frequent.

[*D. glabellum* (Michx.) DC. Reported from "Mass." in Gray's Manual, 7th ed. Investigation at the Gray Herbarium shows that this report is based on a specimen collected by J. W. B. (John Wright Boott) in 1832. The label is in Francis Boott's writing. The sheet went to the Herb. Benthamianum in 1854, thence to the Gray Herbarium. On the herbarium sheet some unknown hand, evidently English, has written in pencil "Boston, U. S. A." There is therefore no reliable information as to where this plant of John Wright Boott's was collected.]

D. marilandicum (L.) DC. Dry open woods, occasional. Apparently rare in Essex county.

D. nudiflorum (L.) DC. Dry open woods, common.

D. obtusum (Muhl.) DC. Rocky woods, rare; Dracut, Bedford, Concord, Brookline, W. Roxbury, Needham.

D. paniculatum (L.) DC. Dry open woods, occasional; only collected from Danvers in Essex county, and from none of the towns south of Randolph and Sherborn.

D. rigidum (L.) DC. Dry woods, frequent in Middlesex county. Only collected from Andover and Georgetown in Essex county, and no reports south of Blue Hill and Hingham in Norfolk and Plymouth counties.

D. rotundifolium (Michx.) DC. Dry woods, apparently well distributed.

GENISTA.

G. TINCTORIA L. Introduced at Salem in the earliest days of the colony, and very abundant in pastures there, a wonderful sight about July 4; spreading throughout Essex county and sporadic at several other places.

GLEDITSIA.

G. TRIACANTHOS L. Occasional; the two stations at Sherborn and Malden may be self-planted; other trees probably merely persistent.

GLYCYRRHIZA.

G. LEPIDOTA (Nutt.) Pursh. Dump, Lawrence (*A. S. Pease*, June 10, 1903 and June 23, 1904); wool-waste, N. Chelmsford (*Miss E. F. Fletcher*, Sept. 5, 1917).

HOSACKIA.

H. AMERICANA (Nutt.) Piper. Back yard, Needham (*T. O. Fuller*, Aug. 20, 1898). Specimen in herb. N. E. Botanical Club. Fugitive from west of the Mississippi.

LATHYRUS.

L. APHACA L. Boston (*C. E. Perkins*, July 6, 1878). Native of Europe and the East.

L. maritimus L. Sea-beaches along the coast.

L. maritimus L., var. **glaber** (Seringe) Eames, RHODORA xi. 95, 1909. Sea-beaches at Plum Island, Gloucester, Manchester and Revere.

L. palustris L., var. **pilosus** (Cham.) Ledeb. (RHODORA xiii. 47-52, 1911). Meadows and brackish marshes, all along the coast.

L. PRATENSIS L. Cultivated field, Concord 1891, A. W. Hosmer in RHODORA i. 223, 1899. This has also been secured at Concord this year by Wm. Brewster on a dry grassy hilltop in Miss Mary Eaton's estate adjoining Sleepy Hollow Cemetery. Mr. Brewster collected it on June 27, and reports that it is definitely established

there, forming mats over an area larger than a good-sized room. It is not now grown in gardens there. Specimens in Herb. Gray and N. E. Botanical Club.

L. SATIVUS L. Dump, Lowell (*C. W. Swan*, Aug. 4, 1884). Specimen in herb. N. E. Botanical Club. Fugitive from Europe.

LESPEDEZA.

L. Brittonii Bicknell. Blue Hill Reservation, Milton (*G. G. Kennedy*, Aug. 29, 1909); Muddy Pond Hills, Boston (*Edwin Faxon*, Sept. 10, 1892). This specimen in the herbarium of Columbia University, New York, was cited in the original description. See *E. P. Bicknell*, *Torreyia* i. 104, 1901).

L. capitata Michx. Dry sandy soil. Common throughout.

L. capitata Michx., var. **stenophylla** Bissell & Fernald (*RHODORA* xiv. 92, 1912). Blue Hill Reservation, Milton (*G. G. Kennedy*, Sept. 22, 1895).

L. capitata Michx., var. **velutina** (Bicknell) Fernald. Occasional.

L. frutescens (L.) Britton. Dry open woods, common throughout.

L. hirta (L.) Hornem. Dry sandy soil, common throughout.

L. Nuttallii Darl. Dry open woods. Not reported from Essex Co., but frequent elsewhere.

L. procumbens Michx. Dry sandy soil, frequent near Boston and west to Sherborn and Framingham; apparently rare elsewhere.

L. Stuvei Nutt. Woods, Dover (*K. M. Wiegand*, July —, 1908). The specimen is in the herbarium of Wellesley College.

L. violacea (L.) Pers. Dry open woods; frequent around Boston, also collected at Andover and Danvers.

L. virginica (L.) Britton. Dry rocky woods and hillsides, common.

LOTUS

L. CORNICULATUS L. Boston (*C. E. Perkins*, —, 1882). Specimen in herb. N. E. Botanical Club.

LUPINUS.

L. perennis L. Dry sandy soil; frequent, especially in Middlesex county.

MEDICAGO.

M. AGRESTIS Ten. (*M. aculeata* Willd. of Dame & Collins, Fl. Middlesex Co. 26, 1888). Woollen mills at Graniteville, Westford (*C. W. Swan*, Aug. 20, 1885). Specimen in herb. N. E. Botanical Club. Native of southern Europe and Syria.

M. ARABICA (L.) Huds. Woollen mill refuse and waste places, rare; Georgetown, Newbury, Lawrence, Dracut, Lowell, Chelmsford, Somerville, Roxbury.

M. FALCATA L. Wool refuse and waste places, rare; Middleton, Lowell, Westford, Boston.

M. HISPIDA Gaertn. Woollen mill yards and dumps, rare.

M. HISPIDA Gaertn., var. *APICULATA* Urban. (*M. lappacea* Lam. of Dame & Collins, Fl. Middlesex Co. 25, 1888). Parker River mills, Georgetown (*Mrs. C. N. S. Horner*, no date); Charlestown (*C. E. Perkins*, July 22, 1879); Boston (*C. E. Perkins*, —, 1882).

[*M. INTERTEXTA* Willd. from wool-waste Westford (*C. W. Swan*) reported in Dame & Collins, Fl. Middlesex Co. 26, 1888, is represented in herb. N. E. Botanical Club and Yale, but specimens are too young for satisfactory determination.]

M. LACINIATA All. Dracut or Lowell (*C. W. Swan*, Aug. 6, 1884); S. Boston flats (*C. E. Perkins*, —, 1878 and Sept. 29, 1881). Native of Mediterranean region.

M. LUPULINA L. Fields and waste places, common.

M. MINIMA L. Woollen mills at Graniteville, Westford (*C. W. Swan*, Sept. 15, 1884); dump, Lowell (*C. W. Swan*, Aug. 6, 1884); sown by wool, N. Chelmsford (*W. P. Alcott*, —, 1878). One specimen of the last seems to be var. *longiseta* DC. Native of Europe.

M. PRAECOX DC. Wool-waste at Graniteville, Westford (*C. W. Swan*, Aug. 20, 1885). Specimens in herb. N. E. Botanical Club and Yale.

M. SATIVA L. Fields and waste places, frequent.

MELILOTUS.

M. ALBA Desr. Waste places, common.

M. INDICA (L.) All. (*M. parviflora* Desf.) Waste places, rare; Dracut or Lowell, Westford, Cambridge, Charlestown, Boston. Native of the Mediterranean region and southern Asia.

M. OFFICINALIS (L.) Lam. Waste places, frequent.

ONOBRYCHIS.

O. VICIAEFOLIA Scop. Open field, Wellesley (*K. M. Wiegand*, June —, 1910). Specimen in herb. Wellesley College. The sainfoin or holy clover, cultivated for fodder in the southern States. Introduced from Europe and Asia.

PAROSELA.

P. DALEA (L.) Britt. (*Dalea alopecuroides* Willd. of Gray's Manual, 7th ed.) S. Boston flats (*C. E. Perkins*, Sept. 29, 1881). A waif from the West.

PISUM.

P. SATIVUM L. Waste places, occasional; seldom if ever re-seeding itself.

ROBINIA.

R. HISPIDA L. Persistent and spreading from old gardens.

R. PSEUDO-ACACIA L. Naturalized and spreading in many places.

R. VISCOSA Vent. Persistent and spreading, especially around old places.

SCORPIURUS.

S. SUBVILLOSA L. Westford near Graniteville woollen mills (*C. W. Swan*, Sept. 15, 1884.) Specimen in herb. N. E. Botanical Club. Adventive from Europe.

STROPHOSTYLES.

S. helvola (L.) Britton. Sandy shores all along the coast from Amesbury to Plymouth, but not very abundant.

C. H. KNOWLTON	}	<i>Committee on Local Flora.</i>
WALTER DEANE		